FIG. 1

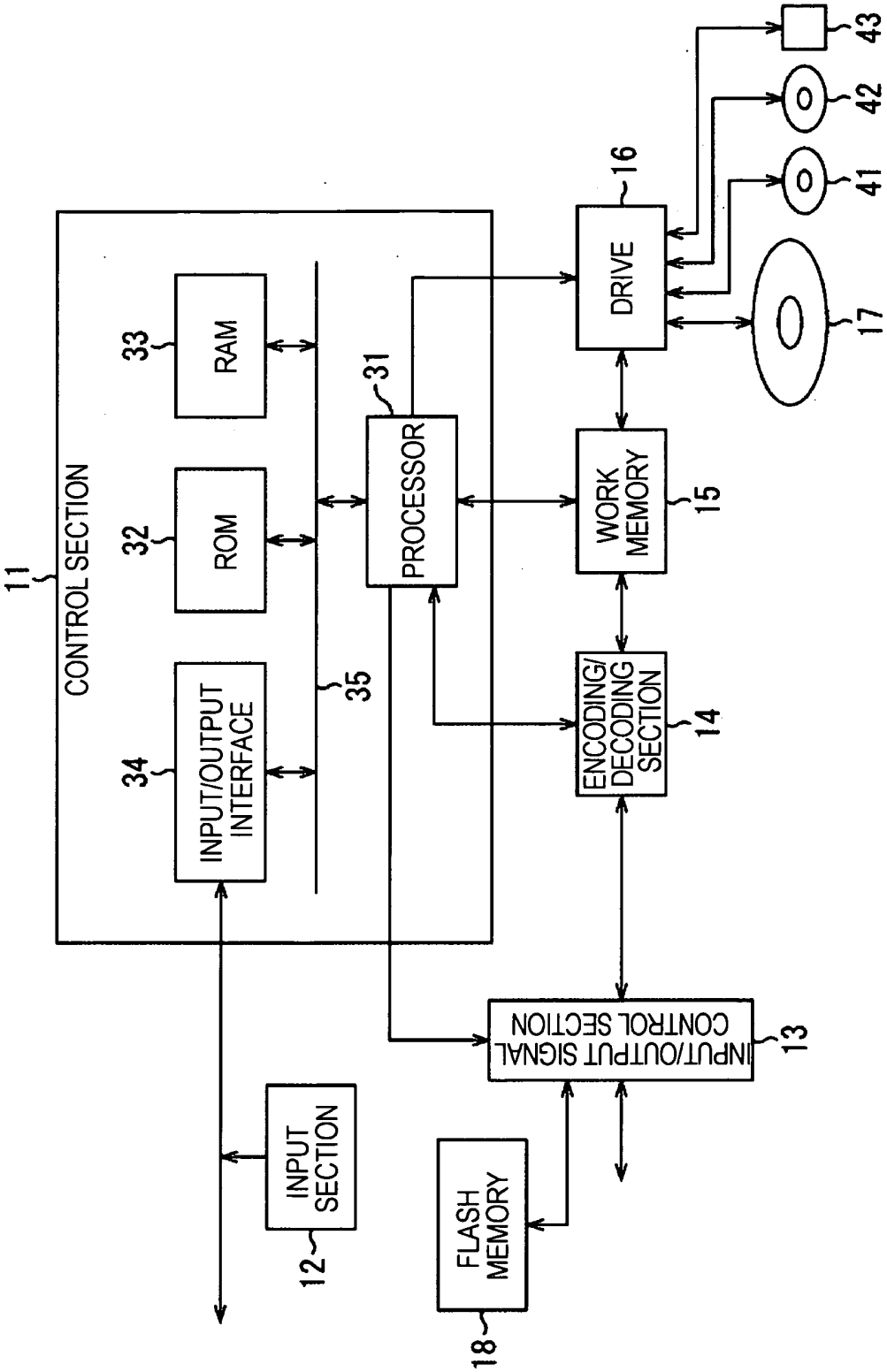

CONTROL SECTION
11
RAM
33
ROM
32
INPUT/OUTPUT INTERFACE
34
35
PROCESSOR
31
DRIVE
16
WORK MEMORY
15
ENCODING/ DECODING SECTION
14
INPUT/OUTPUT SIGNAL CONTROL SECTION
13
INPUT SECTION
12
FLASH MEMORY
18
43
42
41
17

FIG. 2

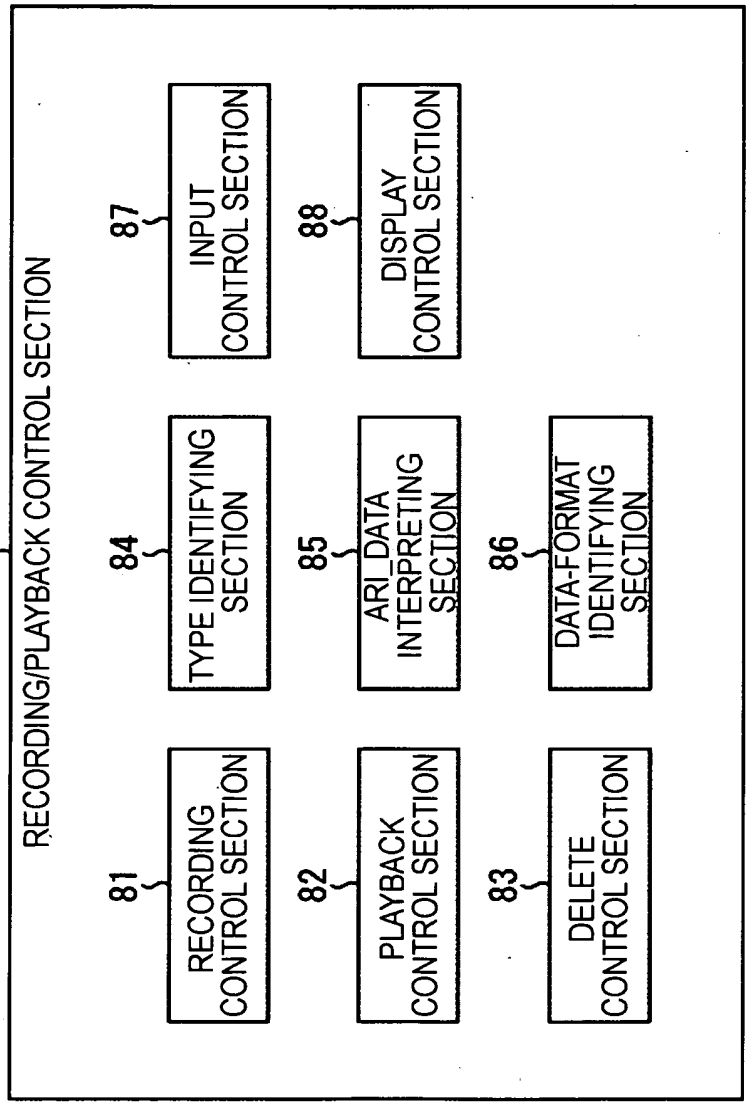

71
RECORDING/PLAYBACK CONTROL SECTION
81
RECORDING CONTROL SECTION
82
PLAYBACK CONTROL SECTION
83
DELETE CONTROL SECTION
84
TYPE IDENTIFYING SECTION
85
ARI_DATA INTERPRETING SECTION
86
DATA-FORMAT IDENTIFYING SECTION
87
INPUT CONTROL SECTION
88
DISPLAY CONTROL SECTION

FIG. 3

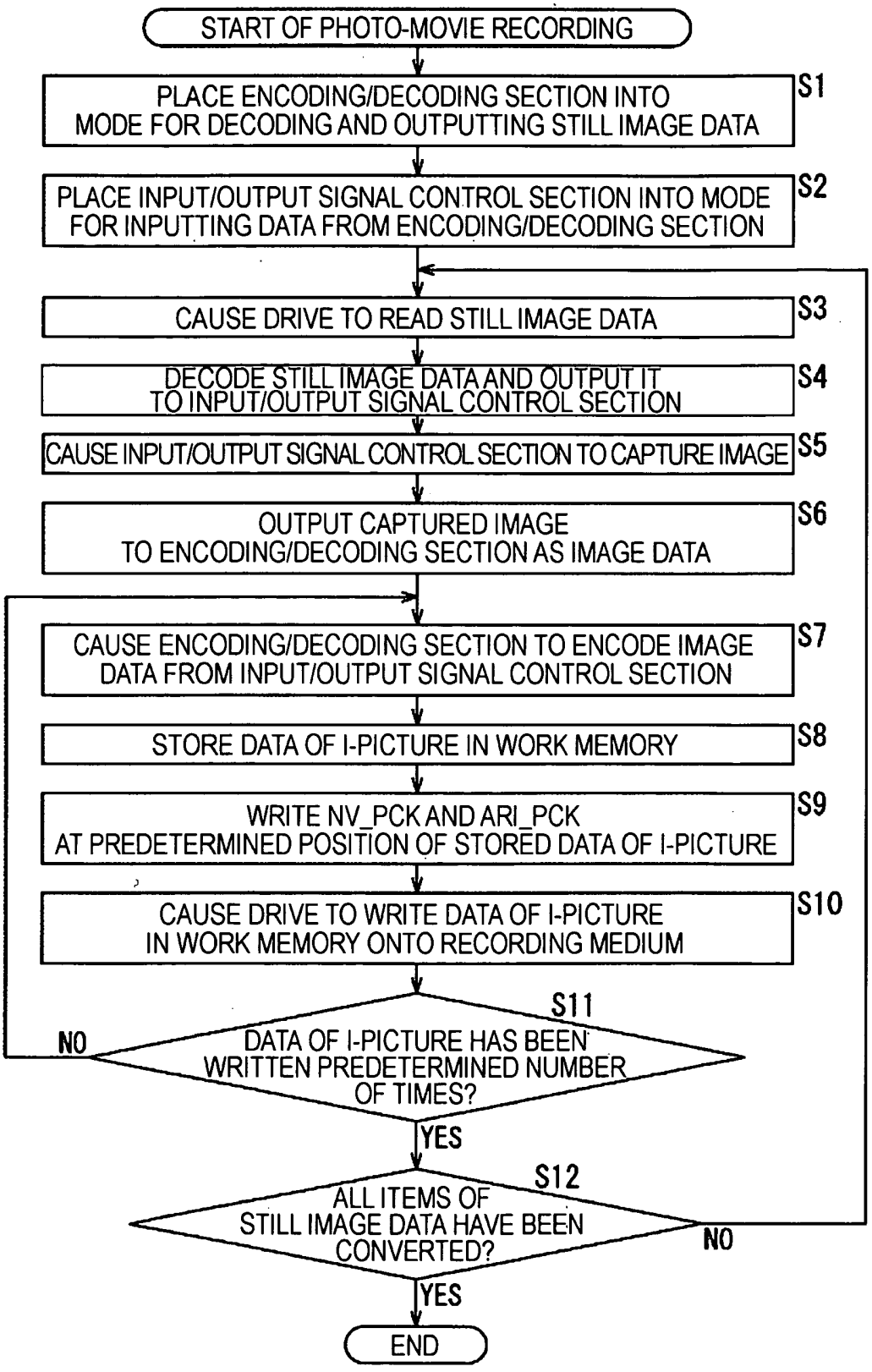

START OF PHOTO-MOVIE RECORDING
PLACE ENCODING/DECODING SECTION INTO MODE FOR DECODING AND OUTPUTTING STILL IMAGE DATA
S1
PLACE INPUT/OUTPUT SIGNAL CONTROL SECTION INTO MODE FOR INPUTTING DATA FROM ENCODING/DECODING SECTION
S2
CAUSE DRIVE TO READ STILL IMAGE DATA
S3
DECODE STILL IMAGE DATA AND OUTPUT IT TO INPUT/OUTPUT SIGNAL CONTROL SECTION
S4
CAUSE INPUT/OUTPUT SIGNAL CONTROL SECTION TO CAPTURE IMAGE
S5
OUTPUT CAPTURED IMAGE TO ENCODING/DECODING SECTION AS IMAGE DATA
S6
CAUSE ENCODING/DECODING SECTION TO ENCODE IMAGE DATA FROM INPUT/OUTPUT SIGNAL CONTROL SECTION
S7
STORE DATA OF I-PICTURE IN WORK MEMORY
S8
WRITE NV_PCK AND ARI_PCK AT PREDETERMINED POSITION OF STORED DATA OF I-PICTURE
S9
CAUSE DRIVE TO WRITE DATA OF I-PICTURE IN WORK MEMORY ONTO RECORDING MEDIUM
S10
S11
DATA OF I-PICTURE HAS BEEN WRITTEN PREDETERMINED NUMBER OF TIMES?
NO
YES
S12
ALL ITEMS OF STILL IMAGE DATA HAVE BEEN CONVERTED?
NO
YES
END

FIG. 4

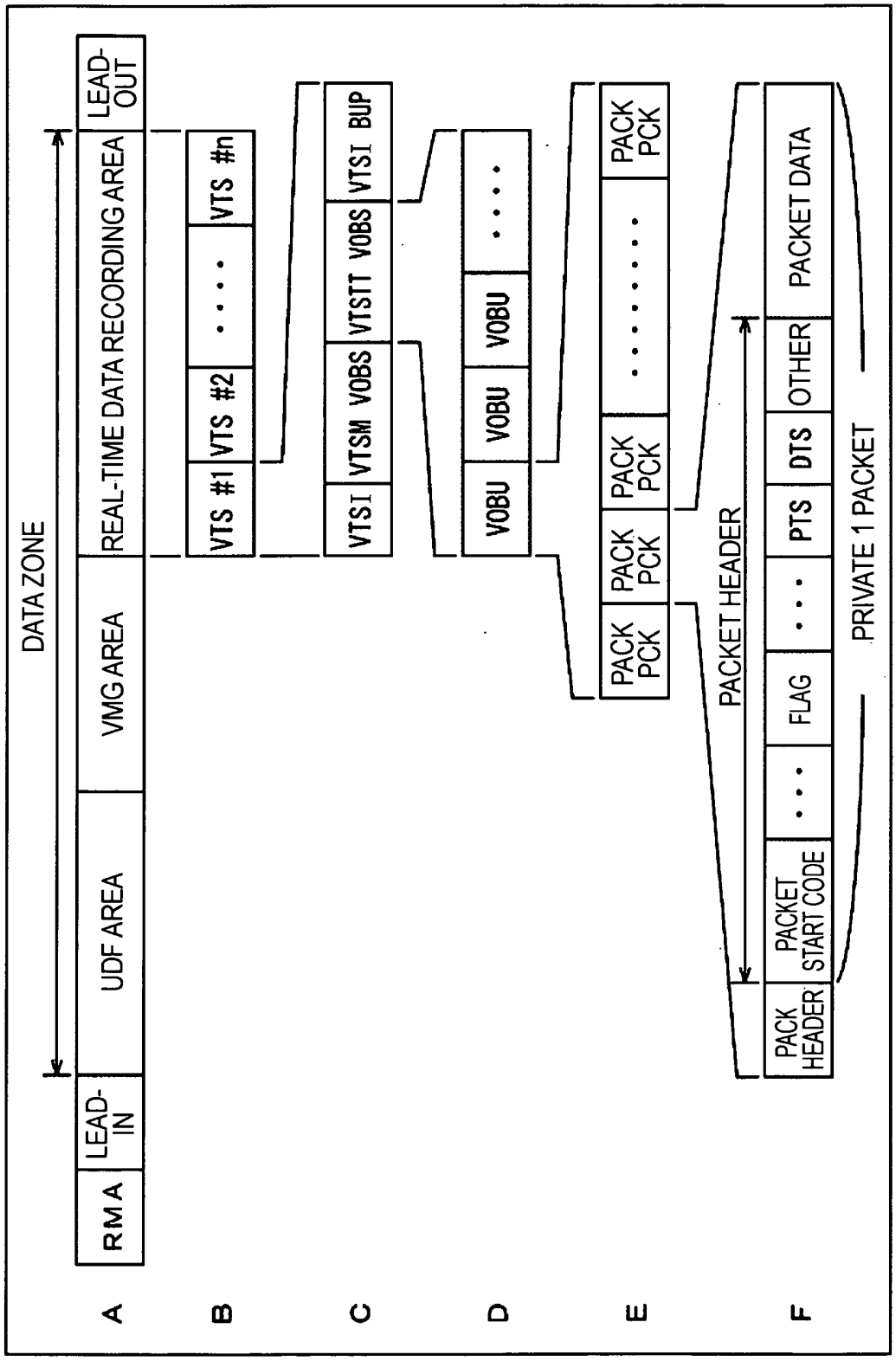

DATA ZONE
RMA
LEAD-IN
UDF AREA
VMG AREA
REAL-TIME DATA RECORDING AREA
LEAD-OUT
A
VTS #1
VTS #2
• • • •
VTS #n
B
VTSI
VTSM VOBS
VTSTT VOBS
VTSI BUP
C
VOBU
VOBU
VOBU
• • • •
D
PACK PCK
PACK PCK
PACK PCK
• • • • • • • • •
PACK PCK
E
PACKET HEADER
PACK HEADER
PACKET START CODE
• • •
FLAG
• • •
PTS
DTS
OTHER
PACKET DATA
PRIVATE 1 PACKET
F

FIG. 5

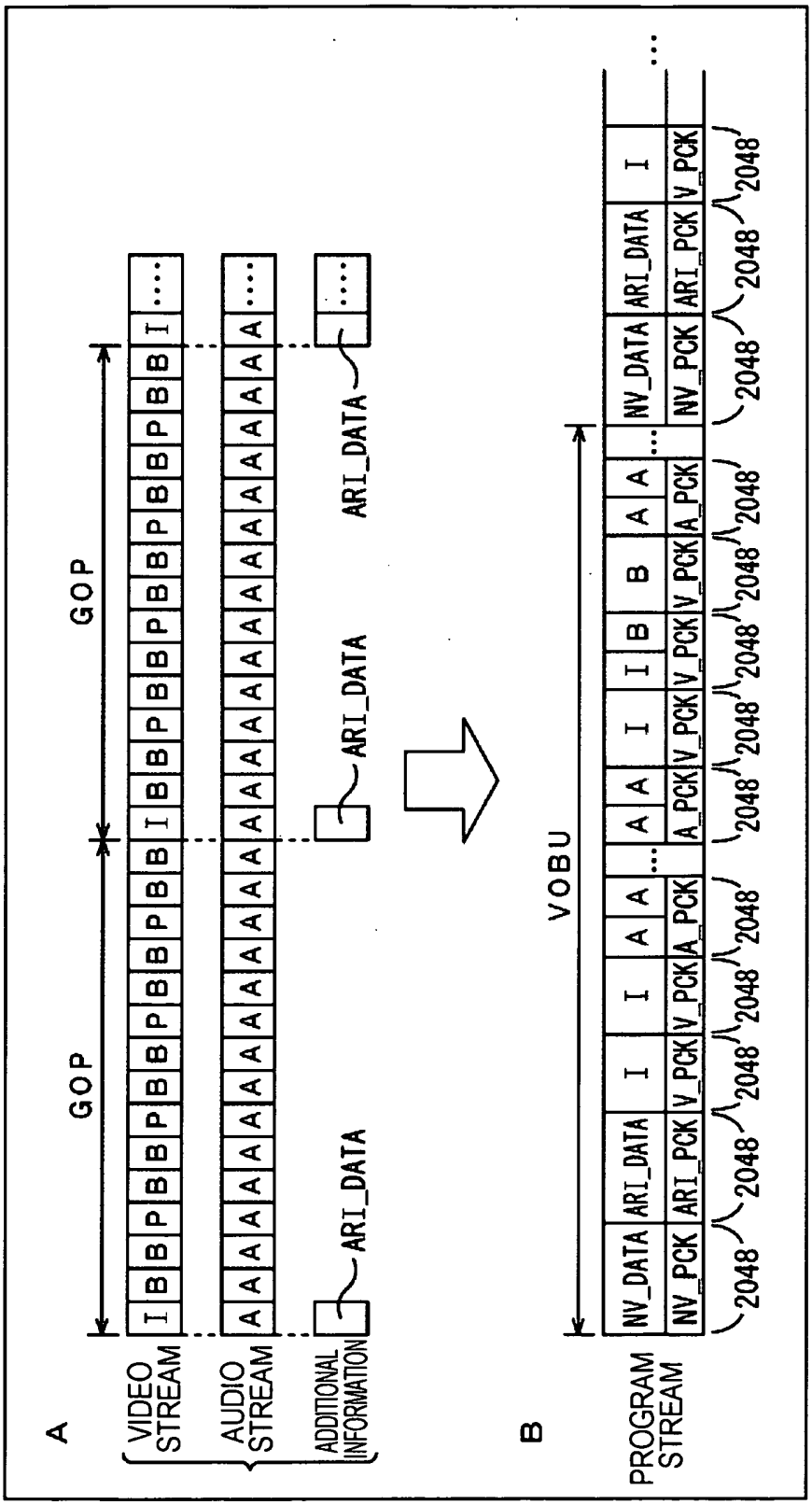

A
VIDEO STREAM
AUDIO STREAM
ADDITIONAL INFORMATION
GOP
GOP
ARI_DATA
ARI_DATA
B
VOBU
PROGRAM STREAM
NV_DATA
ARI_DATA
NV_PCK
ARI_PCK
V_PCK
A_PCK
2048

FIG. 6

RBP	FIELD NAME	DESCRIPTION	NUMBER OF BYTES
ADDITIONAL RECORD INFORMATION IDENTIFIER			Total 12
0 to 7	ARI_DAT_ID	ADDITIONAL RECORD INFORMATION DATA IDENTIFIER	8
8 to 9	ARI_DAT_VER	ADDITIONAL RECORD INFORMATION VERSION	2
10 to 11	reserved	reserved	2
APPLICATION INFORMATION			Total 52
12 to 16	VND_NAME	VENDOR NAME	5
17 to 28	PRD_NAME	PRODUCT NAME	12
29	APL_ID	APPLICATION ID	1
30 to 61	MNFI_DATA	Manufacturer's Information Data	32
62 to 63	reserved	reserved	2
RECORDING TIME INFORMATION			Total 8
64 to 65	VOBU_LCL_TM_ZONE	TIME ZONE OF ARI_DATA RECORDED	2
66 to 70	VOBU_REC_TM	ARI_DATA RECORDING TIME	5
71	reserved	reserved	1
CAMERA INFORMATION			Total 1872
72 to 73	F_NUM	F-NUMBER	2
74 to 77	EXP_TM	EXPOSURE TIME	4
78	EXP_PRG	EXPOSURE PROGRAM	1
79	EXP_PRG_EX	EXPOSURE PROGRAM EXTENSION INFORMATION	1
80 to 81	EXP_BIS_VAL	EXPOSURE CORRECTION VALUE	2
82	AGC	GAIN VALUE	1
83 to 84	MAX_APE_VAL	LENS MINIMUM F-NUMBER	2
85	FLS	FLASH	1
86 to 87	FCL_LEN	LENS FOCAL LENGTH	2
88	CST_REN	INDIVIDUAL IMAGE PROCESSING	1
89	WHT_BAL	WHITE BALANCE	1
90	SCN_CAP_TYP	PHOTOGRAPHIC SCENE TYPE	1
91	FCS_MOD	FOCUS MODE	1
92 to 93	FCS_POS	SUBJECT DISTANCE	2
94	IMG_STB	MOTION BLUR CORRECTION	1
95	DIG_ZOM	DIGITAL ZOOM FACTOR	1
96 to 110	GPS_INFO	POSITION INFORMATION	14
11	STB_LIM	MOTION BLUR CORRECTION LIMIT	1
112 to END	reserved	reserved	

FIG. 7

FIG. 8

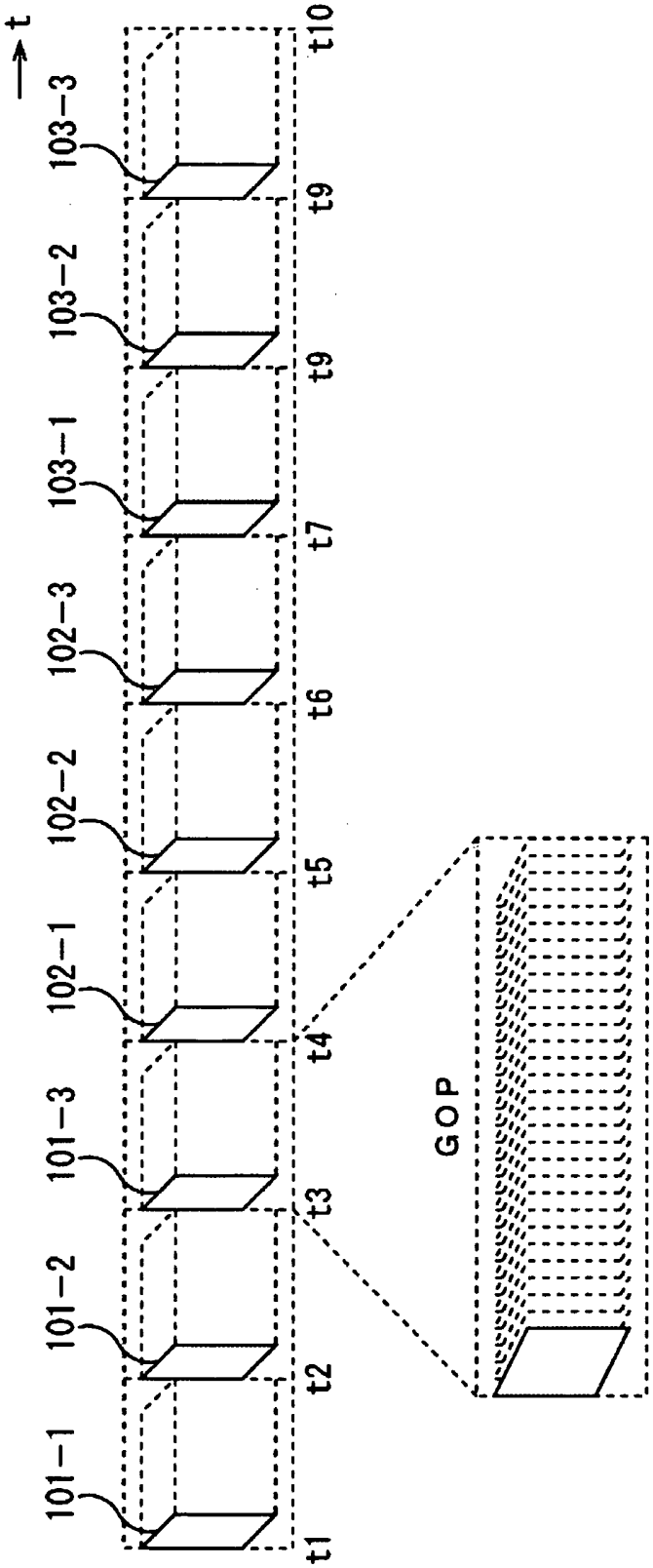

t
t10
t9
t9
t7
t6
t5
t4
t3
t2
t1
103-3
103-2
103-1
102-3
102-2
102-1
101-3
101-2
101-1
GOP

FIG. 9

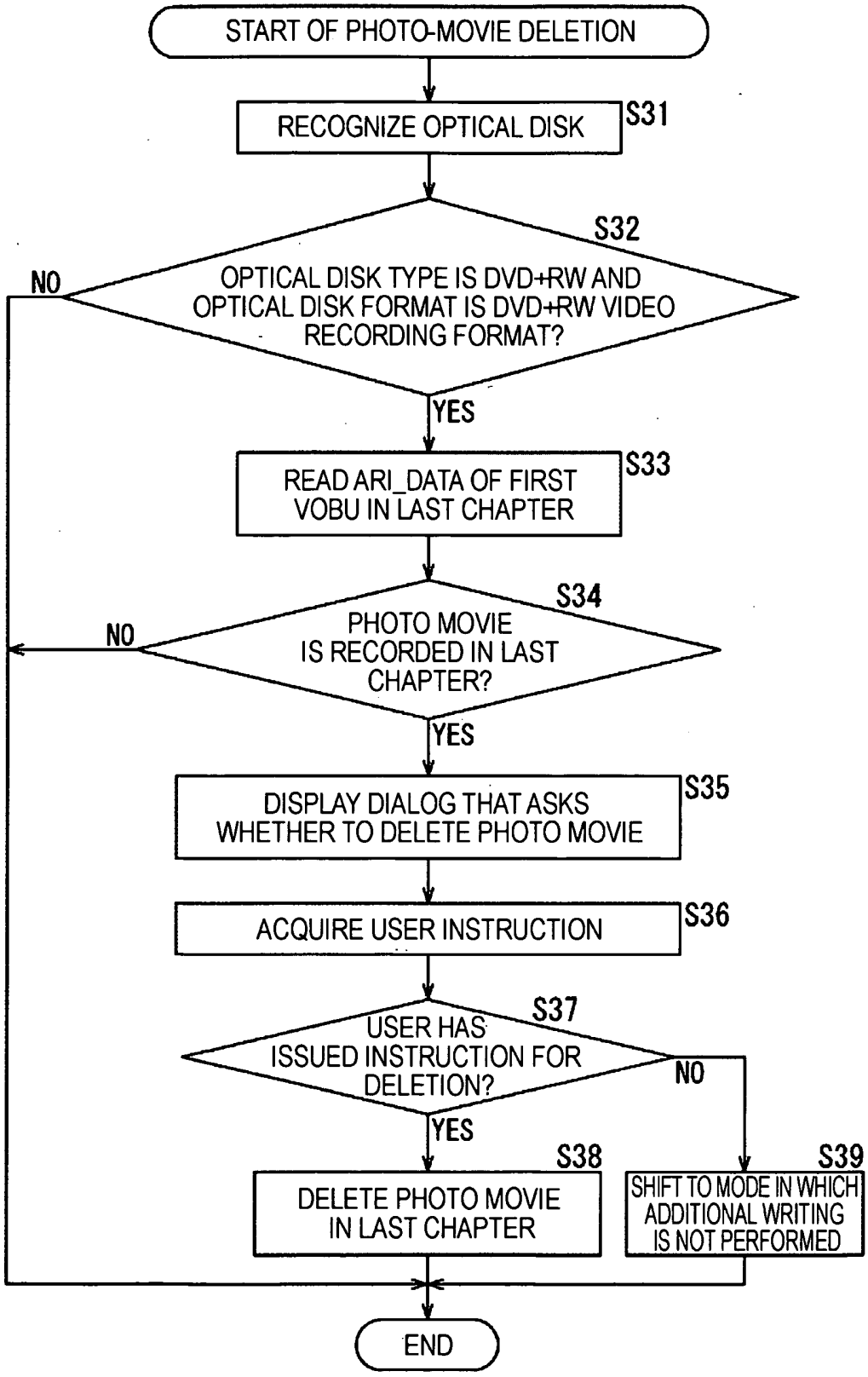

START OF PHOTO-MOVIE DELETION
RECOGNIZE OPTICAL DISK
S31
S32
OPTICAL DISK TYPE IS DVD+RW AND OPTICAL DISK FORMAT IS DVD+RW VIDEO RECORDING FORMAT?
NO
YES
READ ARI_DATA OF FIRST VOBU IN LAST CHAPTER
S33
S34
PHOTO MOVIE IS RECORDED IN LAST CHAPTER?
NO
YES
DISPLAY DIALOG THAT ASKS WHETHER TO DELETE PHOTO MOVIE
S35
ACQUIRE USER INSTRUCTION
S36
S37
USER HAS ISSUED INSTRUCTION FOR DELETION?
NO
YES
S38
DELETE PHOTO MOVIE IN LAST CHAPTER
S39
SHIFT TO MODE IN WHICH ADDITIONAL WRITING IS NOT PERFORMED
END

FIG. 10

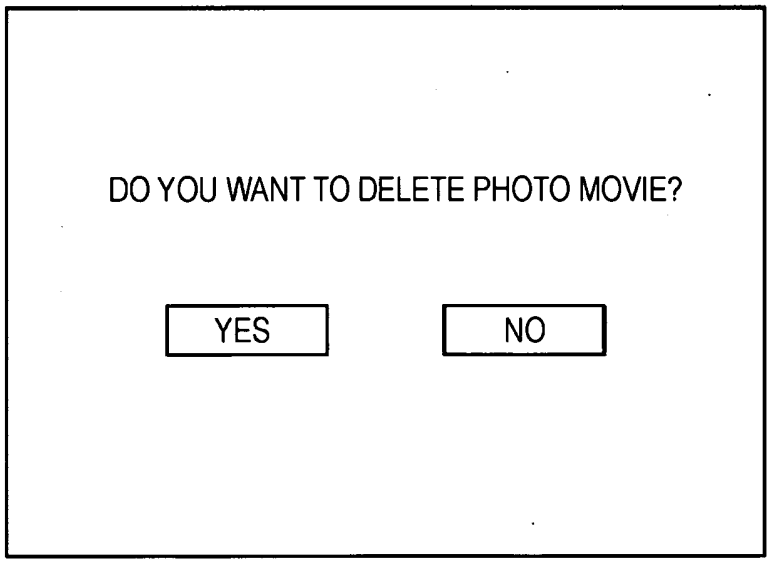


FIG. 11

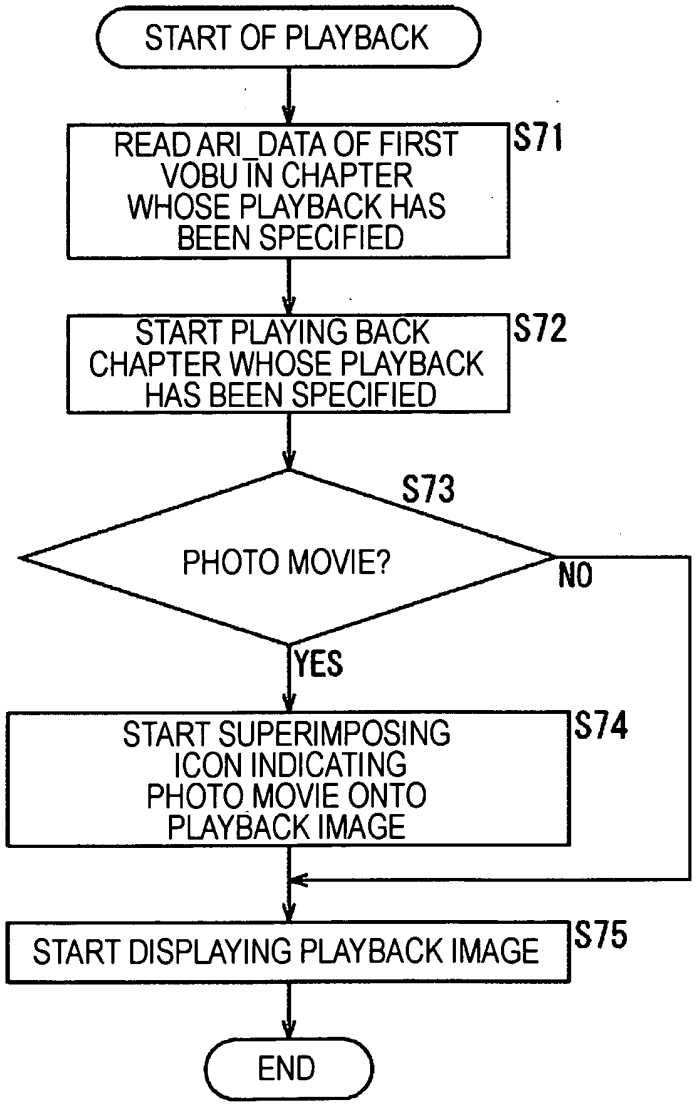
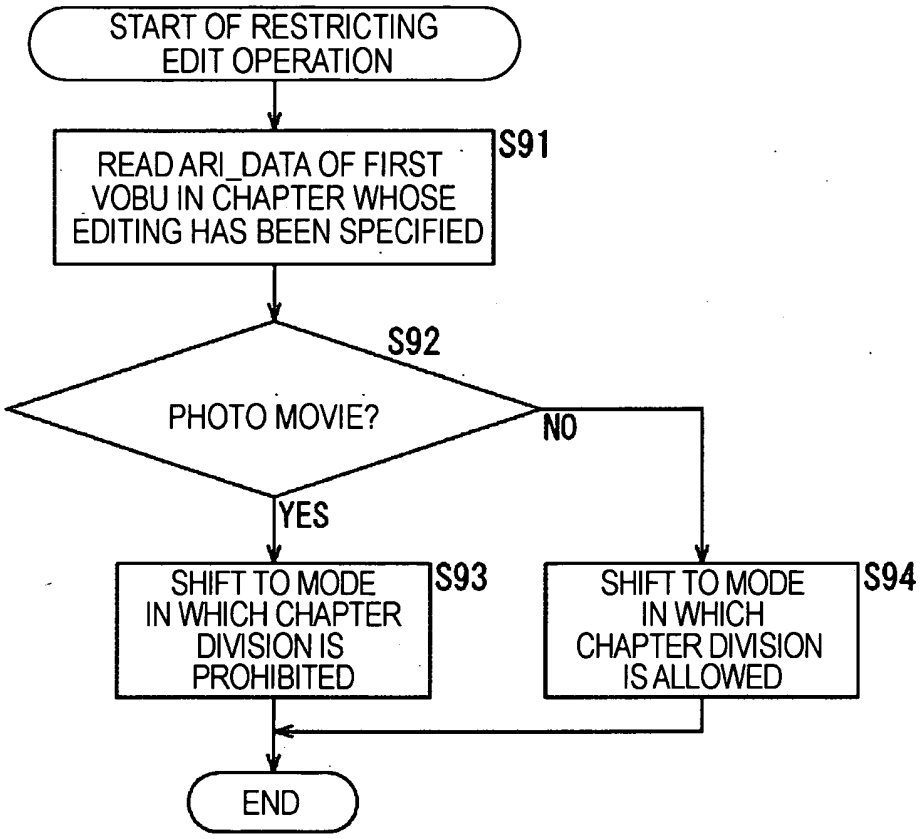

START OF PLAYBACK
READ ARI_DATA OF FIRST VOBU IN CHAPTER WHOSE PLAYBACK HAS BEEN SPECIFIED
S71
START PLAYING BACK CHAPTER WHOSE PLAYBACK HAS BEEN SPECIFIED
S72
S73
PHOTO MOVIE?
NO
YES
START SUPERIMPOSING ICON INDICATING PHOTO MOVIE ONTO PLAYBACK IMAGE
S74
START DISPLAYING PLAYBACK IMAGE
S75
END

FIG. 12


START OF RESTRICTING EDIT OPERATION
READ ARI_DATA OF FIRST VOBU IN CHAPTER WHOSE EDITING HAS BEEN SPECIFIED
S91
S92
PHOTO MOVIE?
NO
YES
SHIFT TO MODE IN WHICH CHAPTER DIVISION IS PROHIBITED
S93
SHIFT TO MODE IN WHICH CHAPTER DIVISION IS ALLOWED
S94
END